

Data Warehouse Project Monthly Report

March 2003

Entire DW Environment (DW db and DMs) and General Project Management

Major Accomplishments

- Established core leadership group for the DW project made up of the leads of the major subcomponents (i.e., Paul Golis, Mike Gomez, Lisa Petrakos, Stan Griffith).
- Continuing to develop the final plan for the end-to-end testing of the RPMS data export through the IE and DW ETL processes, subsequently for non-RPMS, site and non-site exports, IE receipt through DW ETL processes.
- Completing an evaluation of the cost effectiveness of our obtaining an ETL software tool, Embarcadero 9.1, for the development of DW db to Data Mart ETL programming development and documentation, and the refinement and change documentation of the initial DW db ETL for DW2 and beyond.
- Tracking a requisition request for additional hardware critically needed to implement DW1 (2 additional tape drives for backups and a new server for Tivoli Manager).

Next Month's Planned Activities

- Begin the formal meetings and functioning of the DW project lead group.
- Complete evaluation of Embarcadero 9.1 and either recommend its purchase or implement our alternative strategy for its functions.

DW Database

Major Accomplishments

- Completed a thorough review of the entire DW db physical and logical data structures and ETL processes by a second, larger, independent group of in-house programmers and analysts. Began making several recommended corrections and refinements.
- Established a number of ad hoc work groups addressing a number of identified technical issues (e.g., facility table; DWTEST database; encounter tables; SSN verification and CMS enrollment interface; error handling, export tracking and reporting; clinical and administrative data mart issues; ETL code review, non-RPMS systems; interface engine and data transmission; etc.).
- Continuing to compile and organize metadata into a user-friendly repository
 - Patient registration documentation 98% complete
 - Patient encounter documentation 50% complete.

Next Month's Planned Activities

- Continue work through the ad hoc work groups specified above.
- Continue to gather/organize code values for the remaining look up tables.
- Continue the ongoing, iterative compilation and reorganization of metadata into a user-friendly repository.

Administrative Data Mart

Major Accomplishments

- Work on the Administrative Data Mart was put on hold this month as the NPIRS/ORYX/DW resources available for the DW Project were temporarily re-focused on the thorough review of the entire DW db physical and logical data structures and ETL processes and on the ad hoc work groups mentioned above.

Next Month's Planned Activities

- Resume work to complete the revised model and re-submit to first group of OPS/Statistical Officer reviewers.
- Start implementation of model into the database structure.
- Start the ETL (DW database to data mart) programming.

Clinical and Data Quality/Export Tracker Data Marts***Major Accomplishments***

- Work on the Clinical Data Mart was put on hold this month as the NPIRS/ORYX/DW resources available for the DW Project were temporarily re-focused on the thorough review of the entire DW db physical and logical data structures and on the ETL processes and ad hoc work groups mentioned above.
- Re-scheduled "retreat" to finalize clinical data mart design for April 22-24th.

Next Month's Planned Activities

- Complete "data requirements" document to support clinical indicators from DW-1.
- Work with the NPIRS/ORYX/DW team to define the overall design strategy for the data mart and other mechanisms that will handle error handling, export tracking, and data quality assessments.
- Once these requirements are defined, begin work on the SAS Pilot to design the web-based reporting portion of the export tracking and data quality portion of this system for DW-1.
- Begin the design and implementation of any non-SAS portions of this system (e.g., error handling, data received notification).

RPMS Export to DW Environment***Major Accomplishments***

- Continued to closely monitor and coordinate work on the RPMS export.
- Continuing to work with the project officer to issue the task order for the IE programming for the RPMS export and the non-site exports (CHS638, CHSFI, Denrun).

Next Month's Planned Activities

- Complete initial unit testing of the RPMS export product. When IE programming of the RPMS export completed, add unit testing of that component as well as testing of the RPMS load into the DW database staging and target tables. Once all is in place, begin complete system testing.
- Review HL7 implementation guide product and revise as necessary so that it can be distributed to non-RPMS sites and vendors.
- Begin IE programming for the RPMS export.
- Work on IE programming knowledge transfer from Bill Klein, Mitretek, to Anne Butman.
- "Assemble" and perform a check to make sure all the "pieces" of the test environment are linked from end-to-end.

Non- RPMS Site Exports to DW Environment***Major Accomplishments***

- Continuing work on data mapping for Health Pro, Dr. Notes, etc.
- Continuing work with NextGen on their HL7 export.

Next Month's Planned Activities

- Continue work on data mapping for Health Pro, Dr. Notes, etc.
- Continue work with NextGen on their HL7 export.

Other Exports to DW Environment

Major Accomplishments

- Participating on work to develop a standardized list of facilities.

Next Month's Planned Activities

- Continue to participate in the facility ID work group.
- Beginning to participate on the CHS Data Quality Workgroup.